MODEL 122 Control Panel

Single phase, duplex alternating pump control with override.

The Model 122 control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations. The controller is provided with a pump selector switch that can be set to alternate the pumps to equalize wear or to call either pump to activate first with the other pump to activate in lag condition. If an alarm occurs, the alarm activates the audible-visual system. The alarm conditions include: high water, float out-of-sequence, pump fail-to-run, seal failure (optional). Common applications include: lift stations, pump chambers, and irrigation systems.

PANEL COMPONENTS

1. Enclosure measures 12x10x6 inches (30.48x24.4x15.24). Choice of NEMA 1 (steel for indoor use) or NEMA 4X (ultraviolet stabilized thermoplastic, padlockable with integral mounting flanges, drip shield, (2) heavy duty cover latches, and stainless steel ¼ turn set screw; for outdoor or indoor use). Note: added options may change enclosure size and enclosure features.

2. Magnetic Motor Contactors control pumps by switching electrical lines.

3. Circuit Breakers (optional) provide pump disconnect and branch circuit protection.

4. Ground Lugs

5. Duplex Controller provides pump control, alternation and alarm; elevated in the enclosure for easy access and field wiring
   a. HOA switches for manual control Hand/Off/Automatic
   b. Control Power ON/OFF switch
   c. Power ON green LED indicator
   d. Float status red LED indicators
   e. Float push-to-test buttons
   f. Pump selector switch: Alt, 1-lead 2-lag, 2-lead 1 lag
   g. Auxiliary alarm contacts Form-C
   h. Terminal block: incoming power
   i. Terminal block: float switches
   j. Option: adjustable seal failure circuits and red LED indicators (must select option 5E when ordering)

NOTE: Schematic Diagram is located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

6. Red Alarm Beacon provides 360° visual check of alarm condition.
7. Alarm Horn provides audible alarm warning (83 to 85 decibel rating).
8. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared unless the controller is programmed to manual alarm reset.

NOTE: other options available.

FEATURES

- Touch safe circuit board housing and low voltage 12 VDC float circuits
- Alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection
- Pump fail-to-run detection (field programmable to deactivate)
- Controller protected by four auto resettable fuses (control, alarm, pump 1, and pump 2), no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up
- Standard package includes three 20’ control switches or EZconnex® float system
- Five-year limited warranty

California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.
### Options

**Listed below**

<table>
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<tr>
<th>Code</th>
<th>Description</th>
<th>List Price</th>
<th>Total Options</th>
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<td><strong>ENCLOSURE UPSIZE</strong></td>
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<td>If you selected one or more of the ★ options, add a one-time $111.00 for NEMA 4X, $106.00 for NEMA 1 list enclosure upsise</td>
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<td><strong>TOTAL LIST PRICE</strong></td>
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**Total Options** = $1,058.00

### Code Descriptions

- **1A** Red beacon only / no audio
  - Factory programmed
  - $21.00 (per float)

- **1C** Horn only / no visual
  - Factory programmed
  - $21.00 (per float)

- **1D** Redundant off
  - $42.00 (for pumps with thermal switch leads)

- **1E** Seal failure circuit & red indicator (2 wire)
  - $180.00

- **6A** Auxiliary alarm control, Form C
  - (include as standard)
  - $0.00

- **8A** Elapsed time meter
  - $117.00

- **8C** Event (cycle) counter
  - $95.00

- **10E** Lockable latch - NEMA 4X (include as standard)
  - $42.00

- **10F** Lockable latch - NEMA 1
  - $42.00

- **10G** Lightning arrester (select pump circuit breaker)...
  - $244.00

- **10K** Anti-condensation heater
  - $159.00

- **11A** NEMA 1 alarm panel
  - $85.00

- **11D** NEMA 4X alarm panel
  - $315.00

- **14B** Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)
  - (select circuit breaker)
  - $392.00

- **15A** 10' cord in lieu of 20' (per float)
  - $3.00 (per float)

- **15B** 15' cord in lieu of 20' (per float)
  - $2.00 (per float)

- **15C** 30' cord in lieu of 20' (per float)
  - $5.00 (per float)

- **15D** 40' cord in lieu of 20' (per float)
  - $15.00 (per float)

- **17C** Sensor Float* / internally weighted
  - (per float)
  - $9.00

- **17D** Sensor Float* / externally weighted
  - (per float)
  - $11.00

- **17E** Sensor Float Mini / pipe clamp
  - (per float)
  - $2.00

- **17F** Sensor Float Mini / externally weighted
  - (per float)
  - $9.00

- **17G** SJE MilliAmpMaster*/ pipe clamp
  - (per float)
  - $0.00

- **17H** SJE MilliAmpMaster*/ externally weighted
  - (per float)
  - $7.00

- **17J** Sensor Float / pipe clamp...
  - (per float)
  - $4.00

- **19B** Lead lag selector switch (included as standard)
  - $0.00

- **19F** Fourth float to separate alarm function from lag
  - $27.00

- **19T** TOA (Test/Off/Automatic) switches and pump run lights through door mounted
  - $170.00

- **19U** HOA (Hand/Off/Automatic) switches and pump run lights through door mounted
  - $159.00

- **34D** EZconnex* 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug
  - $343.00

- **34E** EZconnex* 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug
  - $388.00

- **34G** EZconnex* 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug
  - $362.00

- **34H** EZconnex* 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug
  - $407.00

- **35D** EZconnex* 4-Port, 25', w/10' floats (4) /pipe clamp
  - $379.00

- **35E** EZconnex* 4-Port, 50', w/10' floats (4) /pipe clamp
  - $424.00

- **35G** EZconnex* 4-Port, 25', w/20' floats (4) /pipe clamp
  - $405.00

- **35H** EZconnex* 4-Port, 50', w/20' floats (4) /pipe clamp
  - $450.00

**EZconnex** mechanically-activated, narrow angle float switches with quick release connections.